

# CURRICULUM VITAE

## MICHAEL H. SCOTT

Last update: February 1, 2016

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School of Civil and Construction Engineering  
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### ACADEMIC BACKGROUND

Ph.D. 2004 Structural Engineering, University of California, Berkeley, CA  
Minors: Numerical Analysis, Computer Science  
Advisor: Gregory L. Fenves

M.S. 1999 Structural Engineering, University of California, Berkeley, CA

B.S. 1998 Civil Engineering, North Carolina State University, Raleigh, NC  
Minor: Computer Science

### PROFESSIONAL EXPERIENCE

Associate Professor                      School of Civil and Construction Engineering  
2010–Present                              Oregon State University, Corvallis, OR  
Interim Head  
2014–2015  
Assistant Professor  
2004–2010

Graduate Student Researcher      Dept. of Civil and Environmental Engineering  
1999–2004                                  University of California, Berkeley, CA  
Graduate Student Instructor  
2002

Staff Engineer/Scientist II          Applied Research Associates, Inc.  
1997–1998                                  Raleigh, NC

Teaching Assistant                      Dept. of Computer Science  
1996–1997                                  North Carolina State University, Raleigh, NC

## REFEREED JOURNAL PUBLICATIONS

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- Zhu, M. and Scott, M. H. “Direct Differentiation of the Particle Finite Element Method for Fluid-Structure Interaction.” *Journal of Structural Engineering*, In press online, 04015159, August 2015.
- Ribeiro, F. L. A., Barbosa, A. R., Scott, M. H., and Neves, L. C. “Deterioration Modeling of Steel Moment Resisting Frame Using Finite-Length Plastic Hinge Force-Based Beam-Column Elements.” *Journal of Structural Engineering*, 141(2):04014112, February 2015.
- Zhu, M. and M. H. Scott. “Improved Fractional Step Method for Simulating Fluid-Structure Interaction by the PFEM.” *International Journal for Numerical Methods in Engineering*, 99(12):925-944, September 2014.
- Zhu, M. and M. H. Scott. “Modeling Fluid-Structure Interaction by the Particle Finite Element Method in OpenSees.” *Computers and Structures*, 132:12-21, February 2014.
- Scott, M. H. “Response Sensitivity of Geometrically Nonlinear Force-Based Frame Elements.” *Journal of Structural Engineering*, 139(11):1963-1972, November 2013.
- Scott, M. H. and K. L. Ryan. “Moment-Rotation Behavior of Force-Based Plastic Hinge Elements.” *Earthquake Spectra*, 29(2):597-607, May 2013.
- Scott, M. H. “Evaluation of Force-Based Frame Element Response Sensitivity Formulations.” *Journal of Structural Engineering*, 138(1):72-80, January 2012.
- Scott, M. H. and O. M. Hamutçuoğlu. “Analytical Sensitivity of Interpolatory Quadrature in Force-Based Frame Elements.” *International Journal for Numerical Methods in Biomedical Engineering* (formerly *Communications in Numerical Methods in Engineering*), 26(12):1586-1595, December 2010.
- Scott, M. H. and G. L. Fenves. “Krylov Subspace Accelerated Newton Algorithm: Application to Dynamic Progressive Collapse Simulation of Frames.” *Journal of Structural Engineering*, 136(5):473-480, May 2010.
- McKenna, F., M. H. Scott, and G. L. Fenves. “Nonlinear Finite Element Analysis Software Architecture Using Object Composition.” *Journal of Computing in Civil Engineering*, 24(1):95-107, January 2010.
- Esch, G., M. H. Scott, and E. Zhang. “Graphical 3D Visualization of Highway Bridge Ratings.” *Journal of Computing in Civil Engineering*, 23(6):355-362, November 2009.
- O. M. Hamutçuoğlu and Scott, M. H. “Finite Element Reliability Analysis of Bridge Girders Considering Moment-Shear Interaction.” *Structural Safety*, 31(5):356-362, September 2009.
- Scott, M. H. and O. M. Hamutçuoğlu. “Numerically Consistent Regularization of Force-Based Frame Elements.” *International Journal for Numerical Methods in Engineering*, 76(10):1612-1631, December 2008.

- Scott, M. H. and T. Haukaas. “Software Framework for Parameter Updating and Finite Element Response Sensitivity Analysis.” *Journal of Computing in Civil Engineering*, 22(5):281-291, September 2008.
- Scott, M. H., A. Kidarsa, and C. Higgins. “Development of Bridge Rating Applications Using OpenSees and Tcl.” *Journal of Computing in Civil Engineering*, 22(4):264-271, July 2008.
- Scott, M. H., G. L. Fenves, F. McKenna, and F. C. Filippou. “Software Patterns for Nonlinear Beam-Column Models.” *Journal of Structural Engineering*, 134(4):562-571, April 2008.
- Kidarsa, A., M. H. Scott, and C. Higgins. “Analysis of Moving Loads Using Force-Based Finite Elements.” *Finite Elements in Analysis and Design*, 44(4):214-224, February 2008.
- Scott, M. H. “Analytical Sensitivity of Plastic Rotations in Beam-Column Elements.” *Journal of Structural Engineering*, 133(9):1341-1345, September 2007.
- Scott, M. H. and F. C. Filippou. “Response Gradients for Nonlinear Beam-Column Elements Under Large Displacements.” *Journal of Structural Engineering*, 133(2):155-165, February 2007.
- Haukaas, T. and M. H. Scott. “Shape Sensitivities in the Reliability Analysis of Nonlinear Frame Structures.” *Computers and Structures*, 84(15-16):964-977, June 2006.
- Scott, M. H. and G. L. Fenves. “Plastic Hinge Integration Methods for Force-Based Beam-Column Elements.” *Journal of Structural Engineering*, 132(2):244-252, February 2006.
- Scott, M. H., P. Franchin, G. L. Fenves, and F. C. Filippou. “Response Sensitivity for Nonlinear Beam-Column Elements.” *Journal of Structural Engineering*, 130(9):1281-1288, September 2004.

#### SHORT COMMUNICATIONS

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- Scott, M. H. and E. Kalkan. “Preface to ‘Computational Simulation in Structural Engineering’.” *Journal of Structural Engineering*, 140(8):A2014001, August 2014.
- Scott, M. H. “Closure to ‘Evaluation of Force-Based Frame Element Response Sensitivity Formulations’ by Michael H. Scott.” *Journal of Structural Engineering*, 139(6):1095-1096, June 2013.
- Scott, M. H. and T. Potisuk. “Discussion of ‘Nonlinear Truss Analysis by One Matrix Inversion’ by A. Fafitis.” *Journal of Structural Engineering*, 132(11):1852-1853, November 2006.

#### PEER-REVIEWED CONFERENCE PROCEEDINGS

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- Zhu, M. and Scott, M.H. *Sensitivity Analysis of Fluid-Structure Interaction using the PFEM*. 12th International Conference of Applications of Statistics and Probability in Civil Engineering (ICASP12), Vancouver, BC, July 2015.

- Carey, T., H. B. Mason, A. R. Barbosa, and M. H. Scott. *Modeling Framework for Soil-Bridge System Response During Sequential Earthquake and Tsunami Loading*. 10th National Conference on Earthquake Engineering, Anchorage, AK, July 2014.
- Scott, M. H. *Extensions of OpenSees for Bridge Management Applications*. 18th Analysis and Computation Specialty Conference, ASCE Structures Congress, Vancouver, BC, Canada, April 2008.
- McKenna, F., M. H. Scott, and G. L. Fenves. *Nonlinear Structural Analysis Using Software Design Patterns*. 18th Analysis and Computation Specialty Conference, ASCE Structures Congress, Vancouver, BC, Canada, April 2008.
- Scott, M. H. *Software Framework to Support Probabilistic Methods in Finite Element Dynamic Analysis*. Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2007), Rethymno, Crete, Greece, June 2007.
- Scott, M. H., C. C. Higgins, and G. Esch. *Reliability Based Bridge Rating Software*. 7th International Conference on Short and Medium Span Bridges, Montreal, QC, Canada, August 2006.
- Scott, M. H. and G. L. Fenves. *A Plastic Hinge Simulation Model for Reinforced Concrete Members*. 17th Analysis and Computation Specialty Conference, ASCE Structures Congress, St. Louis, MO, May 2006.
- Scott, M. H. and T. Haukaas. *Modules in OpenSees for the Next Generation of Performance-Based Engineering*. 17th Analysis and Computation Specialty Conference, ASCE Structures Congress, St. Louis, MO, May 2006.
- Fenves, G. L., F. McKenna, M. H. Scott, and Y. Takahashi. *An Object-Oriented Software Environment for Collaborative Network-Based Simulation*. 13th World Conference on Earthquake Engineering, Vancouver, BC, Canada, August 2004.
- Scott, M. H. and G. L. Fenves. *A Krylov Subspace Accelerated Newton Algorithm*. ASCE Structures Congress, Seattle, WA, May 2003.

#### ABSTRACT-REVIEWED ONLY

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- Scott, M.H. and Zhu, M. *Particle Finite Element Response Sensitivity Analysis of Fluid-Structure Interaction by the Direct Differentiation Method*. 4th International Conference on Particle-Based Methods (PARTICLES 2015). Barcelona, Spain, September 2015.
- Mason, H.B., Barbosa, A.R., Carey, T.J., and Scott, M.H. *Tsunami Bore Impact on Soil-Bridge Systems*. ASCE Structures Congress. Portland, OR, April 2015.
- Scott, M.H. and M. Zhu. *Direct Differentiation Analysis of Fluid-Structure Interaction Using the Particle Finite Element Method*. US National Conference on Computational Mechanics. Raleigh, NC, July 2013.

- White, W.S., H.B. Mason, and M.H. Scott. *Adjacent Building Response Sensitivity to Earthquake Loading*. International Conference on Structural Safety and Reliability. New York, NY, June 2013.
- Zhu, M. and M.H. Scott. *Reliability Analysis of Fluid-Structure Interaction using the Particle Finite Element Method*. International Conference on Structural Safety and Reliability, New York, NY, June 2013.
- Mason, H.B., W.S. White, and M.H. Scott. *Urban Seismic Response Sensitivity of Adjacent Buildings*. Tenth International Conference on Urban Earthquake Engineering, Tokyo, Japan, March 2013.
- White, W.S., H.B. Mason, and M.H. Scott. *Probabilistic Analysis of Structure-Soil-Structure Interaction in Dense Urban Environments*. Conference on Probabilistic Mechanics and Structural Reliability, South Bend, IN, June 2012.
- Zhu, M. and M.H. Scott. *Response Sensitivity Analysis of the Particle Finite Element Method*. Engineering Mechanics Conference, South Bend, IN, June 2012.
- Scott, M.H. *Load Rating Visualization for Reinforced Concrete Bridge Girders*. 6th International Visualization in Transportation Symposium, Chicago, IL, August 2011.
- Scott, M. H. and M. Zhu. *Combined Live Load and Seismic Reliability of Reinforced Concrete Deck-Girder Bridges*. ASCE Structures Congress, Las Vegas, NV, April 2011.
- Scott, M.H. and M. Zhu. *Extensions of the OpenSees Framework for Particle Finite Element Analysis of Fluid-Structure Interaction*. NSF Engineering Research and Innovation Conference, Atlanta, GA, January 2011.
- Scott, M.H. *Simulating Progressive Collapse with a Krylov Subspace Accelerated Newton Algorithm*, International Conference of the Engineering Mechanics Institute, Minneapolis, MN, May 2008.
- Scott, M. H. and A. Kidarsa. *Rating of Highway Bridges Using OpenSees and Tcl*. 13th Annual Tcl/Tk Conference, Naperville, IL, October 2006.

## CONFERENCE PRESENTATIONS

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- “Overview of Tsunami Bridge Modeling Workshop” *PEER Annual Meeting*, Berkeley, CA, January 2016.
- “Software Tools for Gusset Plate Evaluation” *Northwest Transportation Conference*, Corvallis, OR, March 2014.
- “A Prototype Open Source Bridge Management System,” *Northwest Transportation Conference*, Corvallis, OR, February 2008.
- “Parameterization Framework for Model Updating Applications in OpenSees,” *NEES 5th Annual Meeting*, Snowbird, UT, June 2007.

## INVITED PRESENTATIONS

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- “The Evolution of OpenSees: Is the Open Source Model a Success?” *3rd International Conference on Geohazard Information Zonation (GIZ 2014)*, Medan, Indonesia, October 20, 2014. (Invited Keynote)
- “Geometrically Nonlinear Force-Based Beam-Column Elements,” *Applied Mathematics and Computation Seminar*, Oregon State University, Corvallis, OR, March 2013.
- “Extending OpenSees for Fluid-Structure Interaction by the Particle Finite Element Method” *PEER Annual Meeting*, Berkeley, CA, October 2012.
- “Force-Based Frame Finite Elements: Beyond Deterministic, Small Deformation Response,” *Structural Engineering Seminar Series*, University of Notre Dame, South Bend, IN, February 2012.
- “Modifications of OpenSees to Further Enable Reliability/Sensitivity/Optimization Technologies” *PEER Annual Meeting*, Berkeley, CA, October 2011.
- “Sensitivity and Reliability Analysis of Nonlinear Frame Structures,” *Applied Mathematics and Computation Seminar*, Oregon State University, Corvallis, OR, April 2011.
- “Integration Methods and Response Sensitivity for Force-Based Beam-Column Elements,” *Infrastructure Faculty Search*, Oregon State University, Corvallis, OR, June 2004.
- “Exact Response Sensitivity of Beam-Column Finite Elements: Displacement and Force Formulations,” *Structural Reliability Seminar Series*, University of California, Berkeley, CA, October 2002.
- “The OpenSees Analysis Platform,” *Structural Engineering Seminar Series*, North Carolina State University, Raleigh, NC, August 2002.

## WORKSHOP PRESENTATIONS

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- “Structural Modeling for Earthquake Engineering with OpenSees,” *Short Course of HASTAG-V*, Medan, Indonesia, October 22, 2014.
- “Fluid-Structure Interaction by the Particle Finite Element Method in OpenSees,” *OpenSees on the Road*, Corvallis, OR, November 2013.
- “Nonlinear Frame Finite Elements in OpenSees,” *OpenSees on the Road*, Corvallis, OR, November 2013.
- “Fluid-Structure Interaction by the Particle Finite Element Method in OpenSees,” *OpenSees Days*, Richmond, CA, August 2013.
- “Example of Fluid-Structure Interaction in OpenSees,” *PEER Tsunami Research Meeting*, Berkeley, CA, February 2013.

- “Extending OpenSees for the Particle Finite Element Method,” *OpenSees Days*, Richmond, CA, August 2012.
- “Reliability and Sensitivity Analysis in OpenSees,” *OpenSees Days*, Richmond, CA, August 2011.
- “Reliability/Sensitivity/Optimization-Enabling Technologies for Transportation Research Using OpenSees,” *PEER Transportation Systems Research Meeting*, Richmond, CA, May 2011.
- “Reliability and Sensitivity Analysis in OpenSees,” *OpenSees Days*, Richmond, CA, September 2010.
- “Live Load Bridge Analysis Using OpenSees,” *OpenSees Modeling Workshop*, Richmond, CA, June 2007.
- “Software Architecture for Identifying and Updating Parameters,” *OpenSees Developers Symposium*, Richmond, CA, August 2006.
- “Plastic Hinge Models in OpenSees,” *PEER Bridge Column Modeling Workshop*, Richmond, CA, September 2005.
- “Beam-Column Modeling Hierarchy and BeamWithHinges Element,” *OpenSees Developers Symposium*, Richmond, CA, August 2005.
- “Element and Material Models for Parallel Nonlinear Structural Analysis,” *NSF/MRCSS Workshop on High Performance Computing in Finite Element Analysis*, University of Manchester, UK, September 2003.
- “OpenSees Users and Developers Workshop,” University of California, Berkeley, CA, September 2002 and August 2003.
- “Hierarchical Design of Element and Material Models in OpenSees,” *OpenSees Workshop at ASCE Structures Congress*, Denver, CO, April 2002.

## OTHER REPRESENTATIVE WORK

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- Mazzoni, S., F. McKenna, M. H. Scott, G. L. Fenves, et al. *Open System for Earthquake Engineering Simulation User Command-Language Manual*. <http://opensees.berkeley.edu/OpenSees/manuals/usermanual/index.html>, 2006.
- Scott, M. H. *Software Frameworks for the Computational Simulation of Structural Systems*. Ph.D. Thesis, University of California, Berkeley, CA, August 2004.
- Scott, M. H. *A Software Architecture for Finite Element Material Modeling*. Summary of Graduate Research (CE 299 Report), University of California, Berkeley, CA, April 2001.
- McKenna, F., G. L. Fenves, and M. H. Scott. *Open System for Earthquake Engineering Simulation*. <http://opensees.berkeley.edu>, 2000.

## EXTERNALLY FUNDED RESEARCH

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- Alaska DOT&PF Pile Extension Pier Pushover Software Version 2.0 – Improvements and Enhancements.* M.H. Scott (PI). Alaska DOT&PF, \$64,548, 8/20/2015–10/31/2016.
- Efficient Nonlinear Time History Analysis of California Bridges.* M.H. Scott (PI), K.R. Mackie (co-PI). Caltrans, \$150,000, 6/1/2015–1/1/2017.
- Development of Tsunami Design Guide Specifications for Bridges.* M.H. Scott (PI). ODOT and FHWA, \$121,500, 6/1/2015–5/31/2018.
- Center for Risk-Based Community Resilience Planning.* D.T. Cox (PI), A.R. Barbosa (co-PI), M.H. Scott (co-PI). NIST, Colorado State, \$1.1M, 2/1/2015–2/1/2020.
- NEESR Planning/Collaborative Research: Simulation and Design Tools for Tsunami Bridge Engineering.* M. H. Scott (PI). NSF CMMI-1344695, \$135,000, 10/1/2013–9/30/2016.
- Validation of OpenSees for Tsunami Effects on Bridge Superstructures.* M. H. Scott (PI). PEER/Caltrans Lifelines, \$58,225, 9/1/2013–6/30/2014.
- Imaging Tools for Evaluation of Gusset Plate Connections in Steel Truss Bridges.* C. Higgins (PI), M. H. Scott (Co-PI), S. Todorovic (Co-PI). ODOT, \$440,000, 7/1/2012–6/30/2014.
- Reducing Seismic Risk to Highway Mobility: Assessment and Design Tools for Pile Foundations Affected by Lateral Spreading.* S. A. Ashford (PI), M. H. Scott (Co-PI). OTREC 2011-428, \$108,341, 10/1/2010–9/30/2012.
- CAREER: Particle Finite Element Response Sensitivity Analysis of Fluid-Structure Interaction.* M. H. Scott (PI). NSF CMMI-0847055, \$430,000, 8/1/2009–7/31/2014.
- Reliability/Sensitivity/Optimization-Enabling Technologies for Transportation Research using OpenSees.* M. H. Scott (PI), K. R. Mackie (Co-PI). PEER, \$46,112, 8/1/2010–7/31/2011.
- Tools for Gusset Plate Evaluation.* C. Higgins (PI), M. H. Scott (Co-PI), P. Dusicka (Co-PI). OTREC 2010-361, \$212,001, 10/1/2009–9/30/2010.
- Combined Seismic plus Live Load Analysis of Highway Bridges.* M. H. Scott (PI). OTREC 2009-261, \$64,213, 10/1/2008–9/30/2009.
- Development of an Open Source Bridge Management System.* M. H. Scott (PI). OTREC 2008-156, \$57,819, 10/1/2007–9/30/2008.
- Alaska Bridge Bent Pushover Software Including Concrete Confinement Effects.* M. H. Scott (PI). Alaska University Transportation Center, \$70,937, 7/1/2007–6/30/2008.
- Testing Environment for Internet-Based Bridge Maintenance Applications.* M. H. Scott (PI). Kiewit Center for Infrastructure and Transportation, \$6,000, 12/2006.
- Parameterization Framework for Finite Element Model Updating.* M. H. Scott (PI). NSF CNS-0205720, \$40,000, 10/1/2005–9/30/2006.

*Enhanced Software Development for the Finite Element Analysis and Reliability Based Assessment of Highway Bridges.* M. H. Scott (PI), C. Higgins (Co-PI). ODOT, \$270,000, 7/1/2005–6/30/2007.

*Rapid Software Development for the Reliability Based Assessment of Reinforced Concrete Deck Girder Bridges.* M. H. Scott (PI), C. Higgins (Co-PI). ODOT, \$100,000, 11/1/2004–9/30/2005.

## CONFERENCE, WORKSHOP, AND COMMITTEE ACTIVITIES

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Session Co-Organizer and Moderator, “Simulation Methods for Performance Evaluation of Soil-Foundation-Structural Envelope,” ASCE Geotechnical and Structural Engineering Congress, Phoenix, AZ, February 2016.

Co-Moderator, Tsunami Research Plenary Session, PEER Annual Meeting, Berkeley, CA, January 28, 2016.

Member, Organizing Committee, PEER Annual Meeting, Berkeley, CA, January 28-29, 2016.

Co-Organizer, UJNR Tsunami Modeling Workshop, Sponsored by PEER, Corvallis, OR, December 12-14, 2014.

Co-Organizer, OpenSees on the Road, Corvallis, OR, November 2013.

Organizer, Chi Epsilon Rocky Mountain District Meeting, Corvallis, OR, October 2013.

Session Organizer and Moderator, “Advances in Software Development for Structural Engineering Applications,” 18th Analysis and Computation Conference, ASCE Structures Congress, Vancouver, BC, Canada, April 2008.

Session Co-Organizer and Moderator, “Computational Modeling and Simulation for Earthquake Engineering,” 17th Analysis and Computation Conference, ASCE Structures Congress, St. Louis, MO, May 2006.

ASCE-SEI Committee on Emerging Analysis Methods in Earthquake Engineering, Member 2012–Present

ASCE-SEI Committee on Methods of Analysis, Member 2006–Present

ASCE-SEI Committee on Optimal Structural Design, Member 2006–2009

ASCE-SEI Committee on Emergent Computing Technology, Member 2005–Present, Vice Chair 2006–2009

## JOURNAL REVIEWS

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Advances in Engineering Software  
Artificial Intelligence for Engineering Design, Analysis and Manufacturing

Computer Methods in Applied Mechanics and Engineering  
Earthquake Spectra  
Engineering Structures  
Finite Elements in Analysis and Design  
Journal of Bridge Engineering  
Journal of Composite Materials  
Journal of Computing in Civil Engineering  
Journal of Earthquake Engineering  
Journal of Engineering Mechanics  
Journal of Sound and Vibration  
Journal of Steel and Composite Structures  
Journal of Structural Engineering

## PROFESSIONAL MEMBERSHIPS

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American Society of Civil Engineers (ASCE), #409218  
American Society for Engineering Education (ASEE), #317240  
Earthquake Engineering Research Institute (EERI)  
Network for Earthquake Engineering Simulation (NEES) Consortium  
Engineer in Training, North Carolina, #A-17300  
Chi Epsilon (Civil Engineering Honor Society)

## HONORS AND AWARDS

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2012 Best New Contribution to OpenSees (for Fluid-Structure Interaction via the Particle Finite Element Method)  
2011 ASCE Associate Editor Award  
2009 NSF CAREER Award  
2009 ASCE Croes Medal  
2009 Outstanding Reviewer, ASCE Journal of Structural Engineering

## DEPARTMENT SERVICE

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Coordinator, CCE Structural Engineering Group, 2012–2014, 2015–Present  
Chair, CCE Graduate Committee, 2013–2014  
Vice Chair, CCE Graduate Committee, 2012–2013  
Chair, Ad-Hoc Promotion and Tenure Committee, 2013  
Chair, Construction Engineering Management Faculty Search, 2012  
Chair, Geotechnical Engineering Faculty Search, 2011

Member, Geotechnical Engineering Faculty Search Committee, 2009  
Member, Innovative Materials Faculty Search Committee, 2008  
Mentor, CCE Junior Faculty Mentoring Program, 2014–Present  
Advisor, OSU Chi Epsilon, 2010–Present  
Co-Advisor, OSU Chi Epsilon, 2008–2010  
Co-Advisor, OSU Civil Engineering Honor Society, 2005–2008  
Member, CCE Graduate Committee, Member 2005–2007, 2009–2014, 2015–Present  
Member, Structures Research Engineer Search Committee, 2005

## COLLEGE SERVICE

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Representative, PEER Institutional Board, 2015–Present  
Interim Director, Kiewit Center for Infrastructure and Transportation Research, 2014–2015  
Mentor, COE CAREER Proposal Workshop, 2013  
Member, COE Awards Committee, 2011–2012  
Member, COE Career-Life Balance Committee, 2012

## PROFESSIONAL SERVICE

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NSF Review Panel, IUSE/Professional Formation of Engineers: RED, February 2015  
Ad-hoc NSF CAREER Proposal Reviewer, ENG/CMMI HMSE Program, November 2014  
Guest Co-Editor, “Computational Simulation in Structural Engineering,” Special Issue of *Journal of Structural Engineering*, August 2014  
Associate Editor (Analysis and Computation), *Journal of Structural Engineering*, 2010–Present  
NSF Review Panel, ENG/CMS SSHM Program, March 2005